

**CLAIMS**

5           1. Set of motor-driven instruments to aid the fixing of dental implants that comprise a series of atraumatic bone osteotomes of progressive diameters, with these motor-driven osteotomes designed for their assembly to motor-driven or manual-drive connectors, characterised in that:

10                 - the osteotomes (4A, 4B, 4C, 4D) have an apical end (10) followed by a threaded conical section (9) and a threaded cylindrical section (8), with the threaded cylindrical section capped by an adjustment area (7) in which the connectors are assembled (14, 17),

15                 - the set of instruments comprises a very narrow, quadrangular-section starter drill (1) shorter in length and smaller in section than the osteotomes, comprising an end (6) for its connection to a surgical motor,

20                 - the set of instruments comprises at least two drills (2, 3) of different diameters that comprise ends for connection to a surgical motor, and which is used alternately with the osteotomes,

                  - the set of instruments includes connectors (14, 16) for the motor-driven or manual-drive operation of the osteotomes.

25           2. Set of motor-driven instruments to aid the fixing of dental implants according to claim 1, wherein the adjustment area (7) of the osteotomes comprises a polygonal-section projection (13), preferably hexagonal, which is capped by a cylindrical projecting section that creates a circular recess in which an O-ring seal (11) is housed.

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3. Set of motor-driven instruments to aid the fixing of dental implants according to claim 1, wherein the connectors (14, 17) present an end comprising a blind axial recess (12) with a polygonal section, preferably hexagonal, in which is housed the polygonal section (13) of the osteotomes incorporating the O-ring seal (11) that retains the connectors.

4. Set of motor-driven instruments to aid the fixing of dental implants according to claims 1 or 3, wherein the connector (14) possesses motor functions and comprises an extension (6) for its connection to a surgical motor.

5. Set of motor-driven instruments to aid the fixing of dental implants according to claims 1 or 3, wherein the connector (17) possesses extractor functions and comprises a coupling area (15) for connection to a ratchet wrench.

6. Procedure to facilitate the fixing of dental implants wherein during said fixing process the set of motor-driven instruments according to the preceding claims is used.